

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMIERE

Report Number: P221783

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-S-BK-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-[RW, RI]-LED3090-S-BK-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3961.6 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

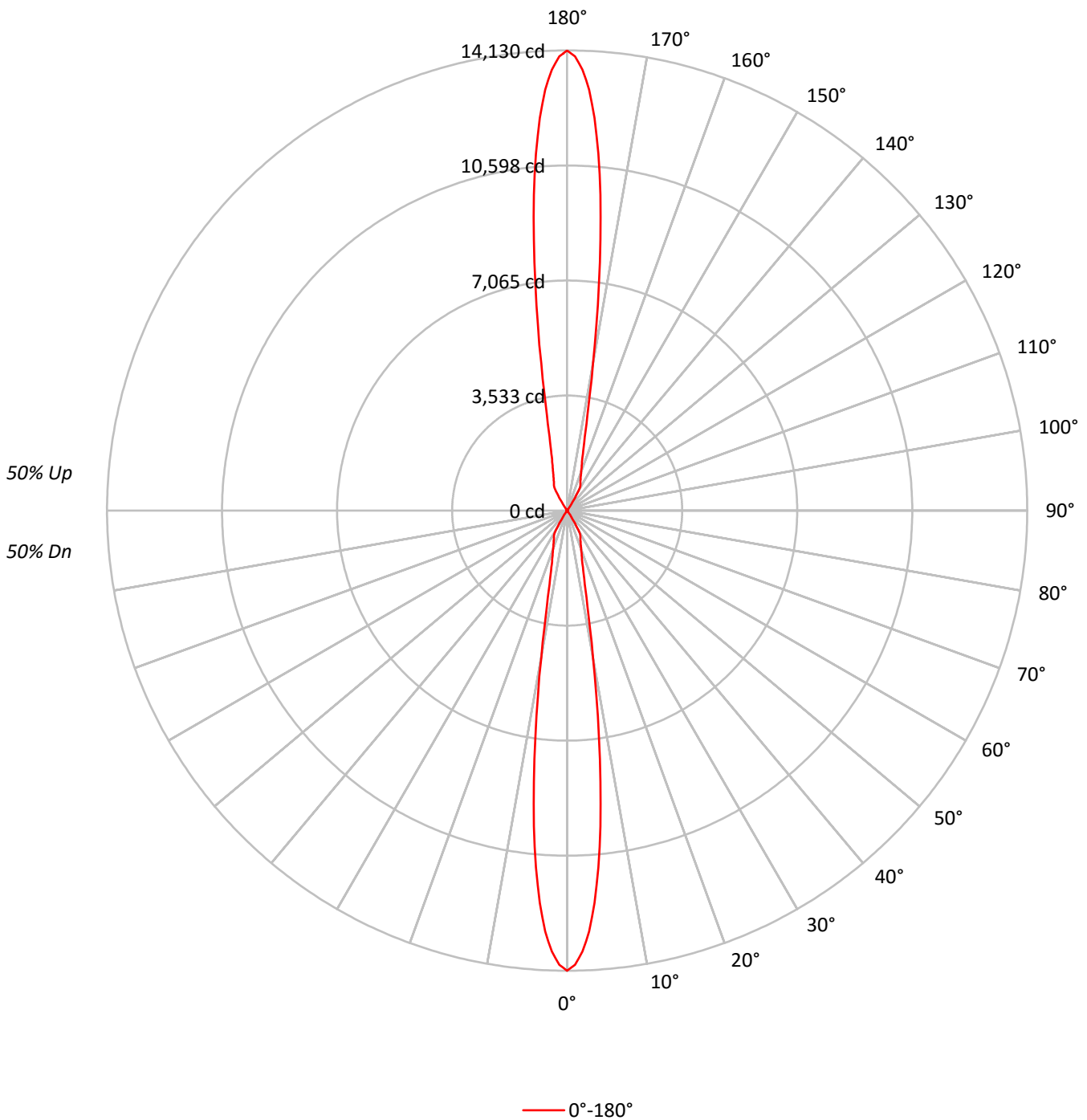
Input Watts (W): 57  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	101	98	95	93	93	91	88	86	78	76	75		65	65	64		54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68		62	61	59		53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63		59	57	56		51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58		57	54	53		49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55		54	52	50		48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52		52	49	48		46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49		50	47	45		45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47		48	46	44		44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45		47	44	42		42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43		45	42	41		41	40	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1742837
5°	1361650
10°	573550
15°	243058
20°	164576
25°	130667
30°	96737
35°	8779
40°	3220
45°	977
50°	768
55°	860
60°	592
65°	467
70°	289
75°	381
80°	568
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.8	20.9
10°-20°	585.0	14.8
20°-30°	446.6	11.3
30°-40°	109.5	2.8
40°-50°	5.9	0.1
50°-60°	3.2	0.1
60°-70°	1.6	0.0
70°-80°	0.8	0.0
80°-90°	0.3	0.0
90°-100°	0.5	0.0
100°-110°	0.8	0.0
110°-120°	1.6	0.0
120°-130°	3.2	0.1
130°-140°	5.9	0.1
140°-150°	109.5	2.8
150°-160°	446.6	11.3
160°-170°	585.0	14.8
170°-180°	827.8	20.9
0°-30°	1859.4	46.9
0°-40°	1969.0	49.7
0°-60°	1978.1	49.9
0°-90°	1980.8	50.0
90°-120°	3.0	0.1
90°-150°	121.6	3.1
90°-180°	1981.0	50.0
0°-180°	3961.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14130	
5°	10997	828
15°	1903	585
25°	960	447
35°	58	110
45°	6	6
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	6	6
145°	58	110
155°	960	447
165°	1903	585
175°	10997	828
180°	14130	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14129.7
1°	13948.5
2°	13549.5
3°	12937.4
4°	12080.3
5°	10997.3
6°	9752.3
7°	8384.4
8°	7007.0
9°	5746.1
10°	4579.3
11°	3655.1
12°	2978.4
13°	2499.5
14°	2158.8
15°	1903.4
16°	1707.1
17°	1564.2
18°	1450.9
19°	1344.7
20°	1253.8
22.5°	1081.4
25°	960.1
26°	927.3
27°	900.2
28°	873.1
29°	801.3
30°	679.2
32.5°	305.7
35°	58.3
37.5°	31.9
40°	20.0
42.5°	8.8
45°	5.6
47.5°	4.8
50°	4.0
52.5°	4.0
55°	4.0
57.5°	3.2
60°	2.4
62.5°	2.4
65°	1.6
67.5°	0.8
70°	0.8
72.5°	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.6
117.5°	2.4
120°	2.4
122.5°	3.2
125°	4.0
127.5°	4.0
130°	4.0
132.5°	4.8
135°	5.6
137.5°	8.8
140°	20.0
142.5°	31.9
145°	58.3
147.5°	305.7
150°	679.2
151°	801.3
152°	873.1
153°	900.2
154°	927.3
155°	960.1
157.5°	1081.4
160°	1253.8
161°	1344.7
162°	1450.9
163°	1564.2
164°	1707.1
165°	1903.4
166°	2158.8
167°	2499.5



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**CANDELA DISTRIBUTION (continued):**

	0°
168°	2978.4
169°	3655.1
170°	4579.3
171°	5746.1
172°	7007.0
173°	8384.4
174°	9752.3
175°	10997.3
176°	12080.3
177°	12937.4
178°	13549.5
179°	13948.5
180°	14129.7

(END OF REPORT)